

## MARKED UP VERSION SHOWING AMENDMENTS TO CLAIMS

Please amend claims 1, 2, and 4-9 as follows, cancel claim 3, and add new claims 10-13 presented below.

1. (Amended) A platelet gel delivery system comprising:  
a dispenser having at least a first and second chamber for receiving at least one inactive blood component, wherein said first chamber activates a first portion of said inactive blood component and stores the resulting coagulated blood component comprising a clot and thrombin, and said second chamber stores a second portion of said inactive blood component; [a dual chamber cartridge comprising:  
a first and second elongated hollow body each having an opening in one end;  
a plunger means positioned to move axially and longitudinally within said first and second elongated hollow body,  
a spring means urging one end of said piston means toward said opening;]  
a filter means for separating thrombin from said clot [positioned near the opening of said first elongated hollow body]; and  
means for mixing said autologous thrombin with said second portion of said inactive blood component.  
[a restoration agent and an activation agent positioned within said first elongated hollow body.]
2. (Amended) A platelet gel delivery system as described in claim 1, wherein said [elongated body is] chambers are generally cylindrical.
4. (Amended) A platelet gel delivery system as described in claim 1, wherein said filter means is positioned within said first [elongated hollow body] chamber.
5. (Amended) A platelet gel delivery system as described in claim 1, wherein said filter means is located outside of the [opening of the] first [elongated hollow body] chamber.
6. (Amended). A platelet gel delivery system as described in claim [1] 13, wherein said restoration agent is a calcium salt.
7. (Amended) A platelet gel delivery system as described in claim [1] 6, wherein said calcium salt is calcium chloride, calcium gluconate, or calcium carbonate.
8. (Amended) A platelet gel delivery system as described in claim [1] 13, wherein said activation agent is glass wool, silica aluminum, [diatomaceous] diatomaceous

earth, kaolin, plastic, siliconized glass or a chemical activator.

9. (Amended) A platelet gel delivery system as described in claim [1] 13, wherein said activation agent and said filtering means are glass wool.

10. (New) The system of claim 1, wherein said inactive blood component is platelet rich plasma.

11. (New) A platelet gel delivery system comprising:

a dispenser having at least a first and second collection chamber, said first collection chamber for receiving and activating a first portion of a separated inactive blood component from a centrifuge and storing the resulting coagulated blood component comprising a clot and thrombin, and said second chamber for receiving and storing a second portion of said inactive blood component from said centrifuge;

a filter for separating said thrombin from said clot;

an outlet lumen connected at one end to said reservoir for removing said inactive blood component from said centrifuge upon separation and further connected at another point along its length to said first vessel through a first valve; and

a tube for combining said thrombin and said second portion of said inactive blood component to produce said platelet gel, said tube fluidly connected at one end to said second vessel and further connected at another point along its length to said outlet lumen through a second valve.

12. (New) The system of claim 11, wherein said inactive blood component is platelet rich plasma.

13. (New) The platelet gel delivery system of claim 1, further comprising a restoration agent and an activation agent positioned within said first chamber.